

senhorinha de fã;tima teixeira

List of Publications by Year in descending order

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150
papers

983
citations

516710

16
h-index

526287

27
g-index

157
all docs

157
docs citations

157
times ranked

815
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic and economic optimization of a solar-powered Stirling engine for micro-cogeneration purposes. <i>Energy</i> , 2016, 111, 1-17.	8.8	86
2	Influence of arterial mechanical properties on carotid blood flow: Comparison of CFD and FSI studies. <i>International Journal of Mechanical Sciences</i> , 2019, 160, 209-218.	6.7	69
3	3D Printing Techniques and Their Applications to Organ-on-a-Chip Platforms: A Systematic Review. <i>Sensors</i> , 2021, 21, 3304.	3.8	60
4	Assessment of the Stirling engine performance comparing two renewable energy sources: Solar energy and biomass. <i>Renewable Energy</i> , 2020, 154, 581-597.	8.9	51
5	Blood Flow Modeling in Coronary Arteries: A Review. <i>Fluids</i> , 2021, 6, 53.	1.7	34
6	Testing thermal comfort of trekking boots: An objective and subjective evaluation. <i>Applied Ergonomics</i> , 2013, 44, 557-565.	3.1	33
7	Design of a solar dish Stirling cogeneration system: Application of a multi-objective optimization approach. <i>Applied Thermal Engineering</i> , 2017, 123, 646-657.	6.0	31
8	CFD Modeling of Combustion in Biomass Furnace. <i>Energy Procedia</i> , 2017, 120, 665-672.	1.8	31
9	Experiments in a large-scale venturi scrubber. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 59-67.	3.6	27
10	Organ-on-a-Chip Platforms for Drug Screening and Delivery in Tumor Cells: A Systematic Review. <i>Cancers</i> , 2022, 14, 935.	3.7	27
11	An economic perspective on the optimisation of a small-scale cogeneration system for the Portuguese scenario. <i>Energy</i> , 2012, 45, 436-444.	8.8	26
12	3D Printed Biomodels for Flow Visualization in Stenotic Vessels: An Experimental and Numerical Study. <i>Micromachines</i> , 2020, 11, 549.	2.9	24
13	In vitro Biomodels in Stenotic Arteries to Perform Blood Analogues Flow Visualizations and Measurements: A Review. <i>Open Biomedical Engineering Journal</i> , 2020, 14, 87-102.	0.5	24
14	Hemodynamic study in 3D printed stenotic coronary artery models: experimental validation and transient simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 623-636.	1.6	23
15	Visualization and Measurements of Blood Cells Flowing in Microfluidic Systems and Blood Rheology: A Personalized Medicine Perspective. <i>Journal of Personalized Medicine</i> , 2020, 10, 249.	2.5	23
16	Polydimethylsiloxane mechanical properties: A systematic review. <i>AIMS Materials Science</i> , 2021, 8, 952-973.	1.4	20
17	Fluid-Structure Interaction study of carotid blood flow: Comparison between viscosity models. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 83, 226-234.	2.5	18
18	Experiments in large scale venturi scrubber. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 424-431.	3.6	17

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19	2D PIV analysis of the flow dynamics of multiple jets impinging on a complex moving plate. <i>International Journal of Heat and Mass Transfer</i> , 2022, 188, 122600.	4.8	16
20	Development of new spacer device geometry: a CFD study (Part I). <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 825-833.	1.6	15
21	Computational Simulations in Advanced Microfluidic Devices: A Review. <i>Micromachines</i> , 2021, 12, 1149.	2.9	15
22	Application of Taguchi Method for the Analysis of a Multiple Air Jet Impingement System with and without Target Plate Motion. <i>International Journal of Heat and Mass Transfer</i> , 2021, 176, 121504.	4.8	14
23	Multi-Objective Optimization of Solar Thermal Systems Applied to Portuguese Dwellings. <i>Energies</i> , 2020, 13, 6739.	3.1	14
24	A quasi-one-dimensional model for gas/solids flow in venturis. <i>Powder Technology</i> , 1999, 102, 281-288.	4.2	13
25	Wetting behaviour of SAC305 solder on different substrates in high vacuum and inert atmosphere. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5106-5112.	2.2	13
26	Thermal comfort assessment of a surgical room through computational fluid dynamics using local PMV index. <i>Work</i> , 2015, 51, 445-456.	1.1	13
27	Influence of Operating Conditions on the Thermal Behavior and Kinetics of Pine Wood Particles Using Thermogravimetric Analysis. <i>Energies</i> , 2020, 13, 2756.	3.1	13
28	The Potential of Renewable Energy in Timor-Leste: An Assessment for Biomass. <i>Energies</i> , 2019, 12, 1441.	3.1	11
29	Contact angle measurement of SAC 305 solder: numerical and experimental approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8941-8950.	2.2	10
30	Integrating Science, Technology, Engineering and Mathematics contents through PBL in an Industrial Engineering and Management first year program. <i>Production</i> , 2019, 29, .	1.3	10
31	The integration of spheroids and organoids into organ-on-a-chip platforms for tumour research: A review. <i>Bioprinting</i> , 2022, 27, e00224.	5.8	10
32	Application of laser anemometry for measuring critical bed shear stress of sediment core samples. <i>Continental Shelf Research</i> , 2008, 28, 2718-2724.	1.8	9
33	Numerical Study of the Unsteady Flow in Simplified and Realistic Iliac Bifurcation Models. <i>Fluids</i> , 2021, 6, 284.	1.7	9
34	Teaching differential equations in different environments: A first approach. <i>Computer Applications in Engineering Education</i> , 2010, 18, 555-562.	3.4	7
35	Thermal Conversion of Pine Wood and Kinetic Analysis under Oxidative and Non-Oxidative Environments at Low Heating Rate. <i>Proceedings (mdpi)</i> , 2020, 58, .	0.2	7
36	Simulation of PMV and PPD Thermal Comfort Using EnergyPlus. <i>Lecture Notes in Computer Science</i> , 2019, , 52-65.	1.3	6

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37	Modeling Blood Pulsatile Turbulent Flow in Stenotic Coronary Arteries. International Journal of Biology and Biomedical Engineering, 2020, 14, .	0.3	6
38	Numerical simulation of blood pulsatile flow in stenotic coronary arteries: The effect of turbulence modeling and non-Newtonian assumptions. , 2020, , .		6
39	Fluid Flow and Structural Numerical Analysis of a Cerebral Aneurysm Model. Fluids, 2022, 7, 100.	1.7	6
40	Design Optimization of a Solar Dish Collector for Its Application With Stirling Engines. , 2015, , .		5
41	Influence of Copper Layer Content in the Elastic and Damping Behavior of Glass-Fiber/Epoxy-Resin Composites. Applied Composite Materials, 2016, 23, 1219-1228.	2.5	5
42	Effect of the Soldering Atmosphere on the Wettability Between Sn4.0Ag0.5Cu (in wt.%) Lead-Free Solder Paste and Various Substrates. Journal of Materials Engineering and Performance, 2018, 27, 5011-5017.	2.5	5
43	Numerical Modeling of the Wave Soldering Process and Experimental Validation. Journal of Electronic Packaging, Transactions of the ASME, 2022, 144, .	1.8	5
44	On Solving the Profit Maximization of Small Cogeneration Systems. Lecture Notes in Computer Science, 2012, , 147-158.	1.3	5
45	pMDI Sprays: Theory, Experiment and Numerical Simulation. , 0, , .		4
46	Thermal-economic optimisation of a CHP gas turbine system by applying a fit-problem genetic algorithm. International Journal of Sustainable Energy, 2018, 37, 354-377.	2.4	4
47	Reusing Equipment in Cells Reconfiguration for a Lean and Sustainable Production. Procedia Manufacturing, 2019, 39, 1038-1047.	1.9	4
48	Rheology of F620 solder paste and flux. Soldering and Surface Mount Technology, 2019, 31, 125-132.	1.5	4
49	Sawdust drying process in a large-scale pellets facility: An energy and exergy analysis. Cleaner Environmental Systems, 2021, 2, 100037.	4.2	4
50	Energy Performance of a Service Building: Comparison Between EnergyPlus and Revit. Lecture Notes in Computer Science, 2020, , 201-213.	1.3	4
51	A CFD Study of a pMDI Plume Spray. , 2014, , 163-176.		4
52	Experimental and numerical analysis of the influence of the nozzle-to-plate distance in a jet impingement process. International Journal of Thermodynamics, 2020, 23, 81-91.	1.0	4
53	Numerical Modeling and Optimization of an Air Handling Unit. Energies, 2021, 14, 68.	3.1	4
54	Analysis and monitoring of the combustion performance in a biomass power plant. Cleaner Engineering and Technology, 2021, , 100334.	4.0	4

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55	Evaluation of the Thermal Behaviour of Injection Moulds. International Polymer Processing, 2000, 15, 95-102.	0.5	3
56	Study of Devolatilization Rates of Pine Wood and Mass Loss of Wood Pellets. , 2017, , .		3
57	Comparison of CFD and FSI Simulations of Blood Flow in Stenotic Coronary Arteries. , 0, , .		3
58	Physical Characterization of Estuarine Sediments in the Northern Coast of Portugal. Journal of Coastal Research, 2010, 262, 301-311.	0.3	2
59	A lining for the Thermal Comfort of Trekking Boots “ Experimental and Numerical Studies. Research Journal of Textile and Apparel, 2011, 15, 50-61.	1.1	2
60	Optimal Design of Micro-Turbine Cogeneration Systems for the Portuguese Buildings Sector. , 2011, , .		2
61	Thermal-Economic Modeling of a Micro-CHP Unit Based on a Stirling Engine. , 2013, , .		2
62	Maximum Profit of a Cogeneration System Based on Stirling Thermodynamic Cycle. , 2014, , .		2
63	Modeling the Reflow Soldering Process in PCBs. , 2015, , .		2
64	CFD Modeling the Cooling Stage of Reflow Soldering Process. , 2016, , .		2
65	Creep Behavior of a Solder Paste With Bi Addition. , 2017, , .		2
66	Tutoring Experiences in PBL of Industrial Engineering and Management Program: Teachers vs Students. , 2017, , .		2
67	Combustion Modelling of a 20 kW Pellet Boiler. , 2018, , .		2
68	Assessment of Indoor Thermal Conditions in a Cinema Room Using CFD Simulation: A Case Study. Lecture Notes in Computer Science, 2019, , 40-51.	1.3	2
69	Experimental measurements of the shear force on surface mount components simulating the wave soldering process. Soldering and Surface Mount Technology, 2021, ahead-of-print, .	1.5	2
70	Thermal Simulation of a Supermarket Cold Zone with Integrated Assessment of Human Thermal Comfort. Lecture Notes in Computer Science, 2020, , 214-227.	1.3	2
71	Prediction of Solder Joint Reliability with Applied Acrylic Conformal Coating. Journal of Electronic Materials, 2022, 51, 273-283.	2.2	2
72	Energy, Thermal Comfort and “Pathologies” A Current Concern. Studies in Systems, Decision and Control, 2022, , 273-279.	1.0	2

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73	Project-Based Learning in a Mechanical Engineering Course: A new proposal based on student's views. International Journal of Mechanical Engineering Education, 2022, 50, 767-804.	1.0	2
74	Experimental Study and CFD Analysis of the Volumatic® Spacer. , 2008, , .		1
75	Thermo-Economic Optimization in the Design of Small-Scale and Residential Cogeneration Systems. , 2009, , .		1
76	Experimental Validation of a CFD Model in a Thermal Environment Characterization. , 2011, , .		1
77	Modeling a Stirling Engine for Cogeneration Applications. , 2012, , .		1
78	Development and Optimization of a Small Scale Pellet Burner. , 2012, , .		1
79	Exergy Efficiency Optimization for Gas Turbine Based Cogeneration Systems. , 2013, , .		1
80	CFD Simulation of Two-Phase Flow in a Large Scale Venturi Scrubber. , 2013, , .		1
81	An Experimental Setup for API Assessment of a Valved Holding Chamber Device. , 2013, , .		1
82	Numerical Study of Regenerator Configuration in the Design of a Stirling Engine. , 2014, , .		1
83	Energy and Exergy Analysis of a Biomass Power Plant. , 2016, , .		1
84	Thermal Driven Dispersion of Smoke in a Parking Space. , 2016, , .		1
85	Rheology Characterization of Solder Paste. , 2017, , .		1
86	Application of DOE for the Study of a Multiple Jet Impingement System. Lecture Notes in Computer Science, 2019, , 3-11.	1.3	1
87	Building Energy Performance: Comparison Between EnergyPlus and Other Certified Tools. Lecture Notes in Computer Science, 2021, , 493-503.	1.3	1
88	Hemodynamic Studies in Coronary Artery Models Manufactured by 3D Printing. Lecture Notes in Mechanical Engineering, 2022, , 191-200.	0.4	1
89	Development of an Experimental Facility to Test Polymer Extrusion. , 2006, , .		1
90	Numerical and experimental studies in the development of new clothing materials. WIT Transactions on Engineering Sciences, 2006, , .	0.0	1

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91	Experimental and Numerical Study of Multiple Jets Impinging a Step Surface. <i>Energies</i> , 2021, 14, 6659.	3.1	1
92	Numerical study of blood fluid rheology in the abdominal aorta. <i>WIT Transactions on Ecology and the Environment</i> , 2008, , .	0.0	1
93	NUMERICAL ANALYSIS OF THE INFLUENCE OF THE JET-TO-JET SPACING BETWEEN TWO ADJACENT AIR JETS IMPINGING A FLAT PLATE. , 2019, , .		1
94	Survey of Existing Literature Data on the Biomass Combustion Behavior in Industrial Grate-Fired Boilers. , 2021, , .		1
95	Design Concept of a Non-invasive Tagging Device for Blue Sharks. <i>Lecture Notes in Mechanical Engineering</i> , 2023, , 80-90.	0.4	1
96	Analysis and Validation of a CFD Simulation of the Wind Through a Horizontal Axis Wind Turbine as an Actuator Disc with a Porous Jump Condition. <i>Lecture Notes in Mechanical Engineering</i> , 2023, , 187-199.	0.4	1
97	Numerical Optimization of a Gas Turbine Cogeneration Plant. , 2003, , 699.		0
98	Simplified Model for the Thermal Boundary Condition in Polymer Injection. , 2005, , 201.		0
99	Teaching Partial Differential Equations With Computer-Based Problem Solving. , 2006, , 121.		0
100	The Influence of Renal Branches on the Iliac Arteries Blood Flow. , 2008, , .		0
101	Computational Fluid Dynamics Applicable to Cloth Design. , 2009, , .		0
102	Study and Development of Spacers for Pressurized Inhaler Devices: A Project Review. , 2009, , .		0
103	Design and Development of a New Valve Geometry for Spacer Devices. , 2010, , .		0
104	The effect of oscillations on the flow patterns near a simulated bed. <i>Coastal Engineering</i> , 2010, 57, 684-693.	4.0	0
105	Computational Fluid Dynamics Simulations: an Approach to Evaluate Cardiovascular Dysfunction. , 0, , .		0
106	Development and Evaluation of a Micro-Cogeneration Prototype for Residential Applications. , 2010, , .		0
107	Modeling Flow Recirculation Inside a Holding Chamber. , 2012, , .		0
108	Teaching Heat Exchanger Design in Mechanical Engineering With CFD. , 2013, , .		0

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109	Thermal comfort evaluation of an operating room through CFD methodology. , 2013, , 425-430.		0
110	Numerical Modeling of Wave Soldering in PCB. , 2014, , .		0
111	Sensibility Studies on a Transient Thermal Model of the Human Body. , 2014, , .		0
112	Indoor Ventilation in Hospital Operating Rooms. , 2014, , .		0
113	Jet Interaction in Cross Flow: Experimental and Numerical Model. , 2014, , .		0
114	VHC Performance Evaluation at Constant Flow: 30 L/Min. , 2015, , .		0
115	Combined Tools for Surgical Case Packages Contents and Cost Optimization: A Preliminary Study. Procedia Computer Science, 2016, 100, 393-398.	2.0	0
116	A Correlative CFD Study Between Recirculation Area and FPM in VHC Design. , 2016, , .		0
117	Parametric Analysis of the Thermal Components of an Alpha-Stirling Engine for Cogeneration Applications. , 2017, , .		0
118	An Experimental Setup for Multiple Air Jet Impingement Over a Surface. , 2018, , .		0
119	Influence of the Microstructure on the Creep Behaviour of Tin-Silver-Copper Solder. , 2018, , .		0
120	A Numerical Study of Solder Paste Rolling Process for PCB Printing. , 2018, , .		0
121	Multi-objective Optimization of Solar Thermal Systems Applied to Residential Building in Portugal. Lecture Notes in Computer Science, 2019, , 26-39.	1.3	0
122	Corporate memory in the lean context. , 2019, , .		0
123	Work-in-Progress: Tailoring broad-spectrum, technology-centred IEM studies. , 2020, , .		0
124	Energy Performance of a Service Building: Comparison Between EnergyPlus and TRACE700. Lecture Notes in Computer Science, 2021, , 364-375.	1.3	0
125	The structure of information in the internationalization processes of universities. , 2021, , .		0
126	Axial variation of droplet distribution in a venturi scrubber. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	0

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127	Contributions to the Study of Blood Flow in the Abdominal Aorta and Its Branches. , 2009, , .		0
128	Optimization of a Small Scale Pellet Boiler. , 2010, , .		0
129	Experimental analysis of particles flow inside the Volumatic®spacer. , 2013, , .		0
130	Flow Structure Over a Simulated Bed for Costal Cohesive Sediment Erosion Studies. , 2013, , .		0
131	Thermal Hydraulic Modeling of Shell and Tube Heat Exchangers. , 2014, , .		0
132	Modeling the Thermal Environment in an Operating Room. , 2014, , .		0
133	Two Stage Atmospheric Burners: Development and Verification of a New Mass-Energy Balance Model. , 2014, , .		0
134	Testing a human thermal software using field investigation from an industrial plant. , 2015, , 329-332.		0
135	Thermal comfort assessment of orthopaedic health professionals in an operating room. , 2018, , 561-565.		0
136	CFD Simulation of an Alfa-Stirling Engine to Study the Geometrical Parameters on the Engine Performance. , 2019, , .		0
137	Measurement Errors and Uncertainty Estimation of an Experimental Set Up Using a 2D PIV Technique. , 2019, , .		0
138	Influence of the Applied Load on the Creep Behaviour of Tin-Silver-Copper Solder. , 2019, , .		0
139	Measurement Errors and Uncertainty Quantification of a Two-Dimensional-Particle Image Velocimetry Experimental Setup for Jet Flow Characterization. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2020, 6, .	1.1	0
140	Numerical Analysis of Single Jet Impinging a Flat and Non-flat Plate. Lecture Notes in Computer Science, 2020, , 487-495.	1.3	0
141	i9MASKS Project. Advances in Higher Education and Professional Development Book Series, 2022, , 271-289.	0.2	0
142	Influence of Plate Orifice in the Pre-Mixing of Gas-Powered Water Heaters. Proceedings (mdpi), 2020, 58, .	0.2	0
143	Experimental Study of Multiple Air Jets Impinging a Moving Flat Plate. , 2020, , .		0
144	Numerical Study of the Flow Inside a Modular Bag Filter From a Biomass Power Plant. , 2020, , .		0

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145	The Effect of Acrylic Conformal Coating in the Reliability of Solder Joints. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 676-681.	2.5	0
146	Numerical Simulation of the Flow Inside a Horizontal Closed Refrigerated Display Cabinet. , 2021, , .		0
147	Numerical Analysis of Multiple Jets Impinging on a Moving Surface. , 2021, , .		0
148	Numerical Simulation of Solder Paste Printing on Through-Hole Components. , 2021, , .		0
149	Steady Flow Studies of the Geometry Effects on the Recirculation Properties at the Iliac Bifurcation. , 2021, , .		0
150	i9Masks: From a Multidisciplinary Summer Project to a Non-Accredited Short Course. , 2021, , .		0